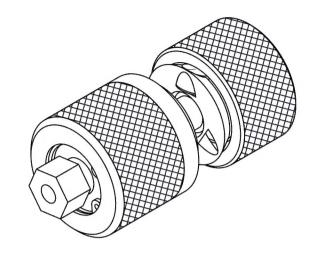
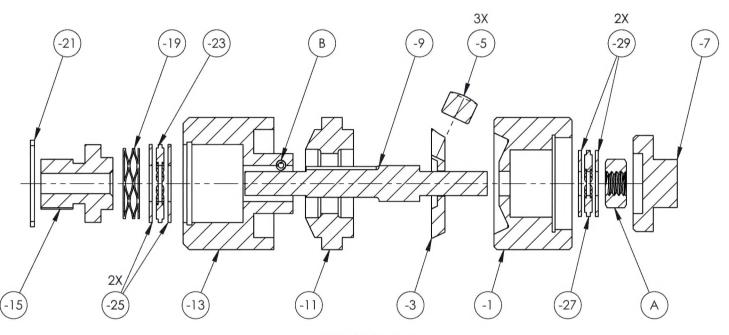
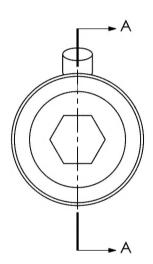
		REVISIONS			
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
8		COMBINED DWGS RBST300P THRU 3006P & RBST3006P THRU 3020P. CHG T/N TO -P FROM P. UPDATED TO NEW DRAFTING STANDARDS.	7/14/2015	SM	JAG

BEARING NUMBER	TOOL NUMBER	Α	В
MS14101-3	RBST3000P	-33	-35
MS14103-3	RBST3001P	-17	-35
MS14103-4			-35
ADW4V	RBST3002P	-17	-35
11HWG04			-35
MS14101-4	RBST3003P	-17	-35
MS14103-5	RBST3004P	-17	-35
MS14101-5	RBST3005P	-17	-35
MS14101-6	DV0001300	17	-31
MS14103-6	RBST3006P	-17	-31
MS14101-7	RBST3007P	-17	-31
MS14103-7A	KD31300/F	-17	-31
MS14103-7	RBST3008P	-17	-31
MS14101-8	RBST3009P	-17	-31
MS14103-8	RBST3010P	-17	-31
MS14101-9	RBST3011P	-17	-31
MS14103-9	RBST3012P	-17	-31
MS14101-10	RBST3013P	-17	-31
MS14103-10	RBST3014P	-17	-31
MS14103-12	RBST3015P	-17	-31
MS14101-12	RBST3016P	-17	-31
MS14101-14	RBST3017P	-17	-31
MS14103-14	RBST3018P	-17	-31
MS14101-16	RBST3019P	-17	-31
MS14103-16	RBST3020P	-17	-31





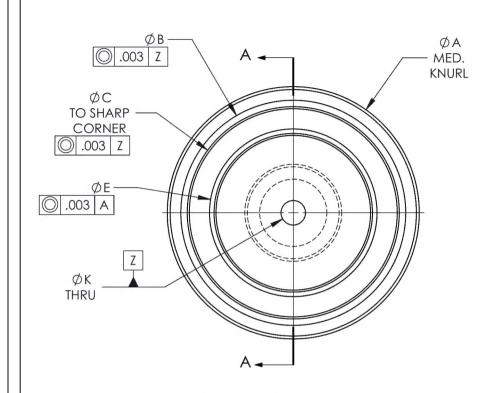


ASSY QTY	ASSY QTY	B/O	Part #	UNIT QTY	Description	Material	B/O INFORMATION OR SPECIFICATIONS	
			-1	1	BASE	01		2
			-3	1	RETAINER	BRONZE		3
			-5	3	ROLLER	STEEL	.310 MINUS GAUGE PIN MSC# 89031009 (MODIFIED)	4
			-7	1	CAP	1018		5
			-9	1	STUD	4140 Q&T/4142 Q&T		6
			-11	1	DUAL SEAT	4140 Q&T/4142 Q&T		7
			-13	1	RECEIVER	4140 Q&T/4142 Q&T		8
			-15	1	TESIONER	4140 Q&T/4142 Q&T		9
		B/O	-17	1	DISTORTED THREAD LOCK NUT	STEEL	1/4-20 UNC X 7/32 HT (MCMASTER-CARR# 95056A150)	
		B/O	-19	1	CREST TO CREST WAVE SPRING	STEEL	SMALLEY RING CO. # CS075-H1	
		B/O	-21	1	SNAP RING	STEEL	Ø7/8 BORE (MCMASTER-CARR# 99142A410)	
		B/O	-23	1	THRUST BEARING (SPRING SIDE)	STEEL	Ø3/8 ID X 13/16 OD X 5/64 WIDTH APPLIED(TIMKEN #NTA-613)	
		B/O	-25	2	BEARING WASHER	STEEL	Ø3/8 DI X 13/16 OD X 1/32 WIDTH APPLIED(TIMKEN# TRA-613)	
		B/O	-27	1	THRUST BEARING (SPRING SIDE)	STEEL	Ø1/4 ID X 11/16 OD X 5/64 WIDTH APPLIED(TIMKEN #NTA-411)	
		B/O	-29	2	BEARING WASHER	STEEL	Ø1/4 DI X 11/16 OD X 1/32 WIDTH APPLIED(TIMKEN# TRA-411)	
		B/O	-31	1	ROLL PIN	S.S.	Ø3/32 X 3/8 (MCMASTER-CARR# 92373A141)	
		B/O	-33	1	DISTORTED THREAD LOCK NUT	STEEL	#10-24 (MCMASTER-CARR# 91837A014)	
		B/O	-35	1	ROLL PIN	S.S.	Ø1/16 X 3/8 (MCMASTER-CARR # 92373A107)	

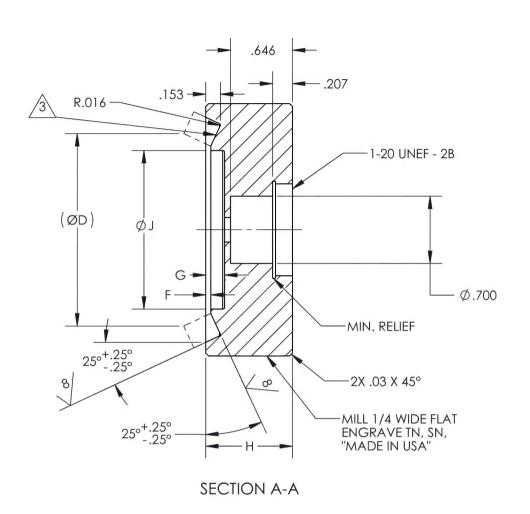
SECTION A-A

			RT		
TITLE	RBST3000-	P THRU	3020-P I	PORTABLE	
	TRI-RC	LLER SV	VAGING	TOOL	
DWG N	0.	SEE T	ABLE		REV 8
MAT'L			DRAWN BY:		
	UNLESS OTHERWISE DIMENSIONS ARE I	MINCHES	APPROVED	I Gilber	ť
	± .005 FRACT	IONS ± 1/8	HEAT TREAT	, ,	
.XX	‡ .01 AN	GLES ±.5°	FINISH		
	EAK ALL SHARP EDG	ES .015 x 45°	SPEC		
	.015R IENSIONAL LIMITS AF	DI V AETED	USED ON MODEL		
	ATING	FETAFIER	SEE TABLE		
SCAL	-E 1:1	DATE		SHEET 1 OF	9

REVISIONS								
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED			
8		COMBINED DWGS RBST300P THRU 3006P & RBST3006P THRU 3020P. CHG T/N TO - P FROM P. UPDATED TO NEW DRAFTING STANDARDS.	7/14/2015	SM	JAG			



TOOL NUMBER	ØA +.020 020	ØB +.006 002	ØC +.006 002	ØD P.D. REF.	ØE +.006 002	+.003 003	+.003 003	Н	Ø٦	ØK +.000 003		
RBST3000P	1.250	.993	.846	.500	.276					.195		
RBST3001P	1.250	1.056	.909	.563	.339							
RBST3002P	1.250	1.056	.909	.563	.339	000						
RBST3003P	1.250	1.087	.940	.594	.370	.022						
RBST3004P	1.250	1.118	.971	.625	.401							
RBST3005P	1.250	1.153	1.006	.660	.436							
RBST3006P	1.375	1.052	.906	.712	.460							
RBST3007P	1.375	1.146	1.000	.806	.554							
RBST3008P	1.375	1.177	1.031	.837	.585							
RBST3009P	1.375	1.216	1.070	.876	.624		000	012	NI/A			
RBST3010P	1.375	1.240	1.094	.900	.648		.000	.813	N/A	055		
RBST3011P	1.500	1.310	1.164	.970	.718					.255		
RBST3012P	1.625	1.365	1.219	1.025	.773							
RBST3013P	1.625	1.403	1.257	1.063	.811	.053						
RBST3014P	1.625	1.427	1.281	1.087	.835							
RBST3015P	1.750	1.591	1.445	1.251	.999							
RBST3016P	1.875	1.652	1.506	1.313	1.060							
RBST3017P	2.000	1.778	1.632	1.438	1.186							
RBST3018P	2.125	1.841	1.695	1.501	1.249							
RBST3019P	2.250	1.966	1.820	1.626	1.374							
RBST3020P	2.625	2.341	2.195	2.001	1.749		.197	.904	1.650			



(-1)BASE



NOTES:

1. BREAK ALL SHARP CORNERS (.015/.03).

DIMENSION TO BOTTOM OF R.016=.153; DIMENSION TO SHARP CORNER=.158.

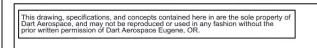
3 RACE SURFACE MUST BE SMOOTH AND FREE OF GROOVES AND MACHINING MARKS.

- 4. MUST HOLD ØC POSITION AND ANGLE TOLERANCES TO MAINTAIN PITCH DIA.
- 5. DO FIRST ARTICL INSPECTION BEFORE HEAT TREATING.

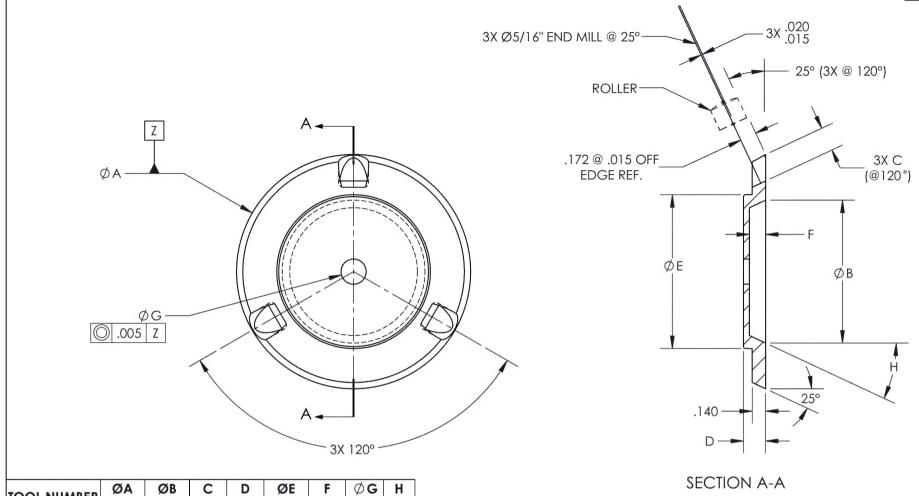


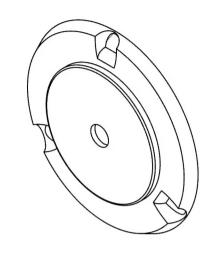
SEE TABLE-1					
MAT'L O1		DRAWN BY:			
UNLESS OTHERWISE DIMENSIONS ARE IN	LINCHES	APPROVED	9 Gilber	t	
.XXX ± .005 FRACTI		HEAT TREAT	RC 55-60		
	GLES ±.5°	FINISH	BLACK OXIDE		
1. BREAK ALL SHARP EDGE	S .015 x 45°	SPEC			
OR .015R 2. DIMENSIONAL LIMITS AP	DI V AETED	USED ON MODEL			
PLATING PLATING	SEE TABLE				
SCALE 1:1	DATE		SHEET 2 OF	9	

RBST3000-P THRU 3020-P PORTABLE TRI-ROLLER SWAGING TOOL



		REVISIONS			
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
8		COMBINED DWGS RBST300P THRU 3006P & RBST3006P THRU 3020P. CHG T/N TO -P FROM P. UPDATED TO NEW DRAFTING STANDARDS.	7/14/2015	SM	JAG





TOOL NUMBER	+.002 002	+.010 000	+.003	D	Ø.	•	+.000 003	"	
RBST3000P	1.083	.260					.197		
RBST3001P	1.147	.330							
RBST3002P	1.147	.330	.343			.050		0°	
RBST3003P	1.177	.330	.545			.030	.269	0	
RBST3004P	1.207	.350							
RBST3005P	1.243	.350							
RBST3006P	1.144	.528							
RBST3007P	1.243	.711		N/A	N/A				
RBST3008P	1.274	.711	.250						
RBST3009P	1.313	.745				.062			
RBST3010P	1.337	.745				.002			
RBST3011P	1.401	.792	.242						
RBST3012P	1.462	.792							
RBST3013P	1.500	.873					.262	25°	
RBST3014P	1.524	.873				.075			
RBST3015	1.688	1.010		.169	.980	.106			
RBST3016P	1.747	1.028	.250			.062			
RBST3017P	1.875	1.123		N/A	N/A	.070			
RBST3018P	1.938	1.123				.062			
RBST3019P	2.063	1.246		.148	1.300	.085			
RBST3020P	2.438	1.487		.231	1.600	1.69			

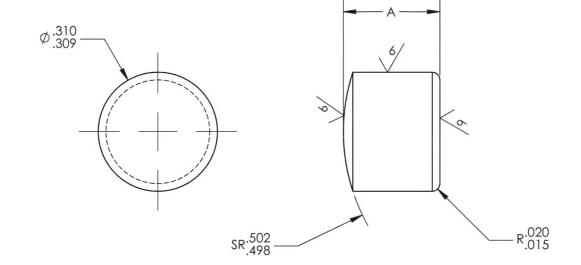
(-3)

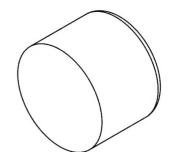
RETAINER

NOTES: 1. BREAK ALL SHARP CORNERS (.015/.03)

	DART							
TITLE	RBST3000-P THRU 3020-P PORTABLE TRI-ROLLER SWAGING TOOL							
DWG NO.		SEE TA	ABLE-3		REV 8			
MAT'L B	RONZE		DRAWN BY:					
	LESS OTHERWISE		APPROVED	I Gilber	ť			
.xxx ±		IONS ± 1/8	HEAT TREAT					
1.XX ±	.01 AN	GLE\$ ±.5°	FINISH					
1. BREAL	K ALL SHARP EDG	ES .015 x 45°	SPEC					
OR .01	5R ISIONAL LIMITS AF	DIV AFTED	USED ON MODEL					
PLATII		PLTAFIER	SEE TABLE					
SCALE	1:1	DATE		SHEET 3 OF	9			

	REVISIONS									
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED					
8		COMBINED DWGS RBST300P THRU 3006P & RBST3006P THRU 3020P. CHG T/N TO -P FROM P. UPDATED TO NEW DRAFTING STANDARDS.	7/14/2015	SM	JAG					





TOOL NUMBER	<b>A</b> +.001 001
RBST3000P	
RBST3001P	
RBST3002P	.335
RBST3003P	.555
RBST3004P	
RBST3005P	
RBST3006P	
RBST3007P	
RBST3008P	
RBST3009P	
RBST3010P	
RBST3011P	
RBST3012P	
RSBT3013P	.251
RBST3014P	
RBST3015P	
RBST3016P	
RBST3017P	
RBST3018P	
RBST3019P	
RBST3020P	

**ROLLER** 



RBST3000-P THRU 3020-P PORTABLE TRI-ROLLER SWAGING TOOL

DWG NO.

SEE TABLE-5

REV 8

MAT'L STEEL DRAWN BY: UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES SXX ± .005 FRACTIONS ± 1/8 FINISH XX ± .01 ANGLES ± .5° FINISH SPEC

1. BREAK ALL SHARP EDGES .015 x 45° OR .015R
2. DIMENSIONAL LIMITS APPLY AFTER PLATING

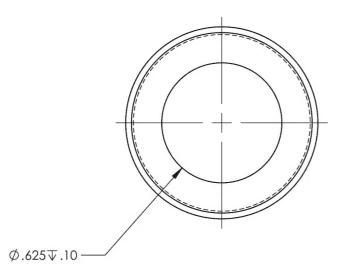
USED ON MODEL SEE TABLE

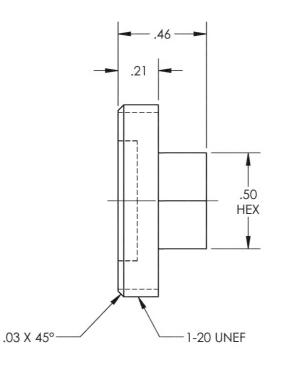
RC 55-60

SCALE 4:1 DATE

SHEET 4 OF 9

		revisions					
REV ECR DESCRIPTION			DESCRIPTION	DATE	INITIAL	APPROVED	
	8		COMBINED DWGS RBST300P THRU 3006P & RBST3006P THRU 3020P. CHG T/N TO -P FROM P. UPDATED TO NEW DRAFTING STANDARDS.	7/14/2015	SM	JAG	







RBST3002P RBST3003P RBST3004P RBST3005P RBST3006P RBST3007P RBST3008P RBST3009P RBST3010P

TOOL NUMBER RBST3000P RBST3001P

RBST3011P RBST3012P RBST3013P RBST3014P RBST3015P

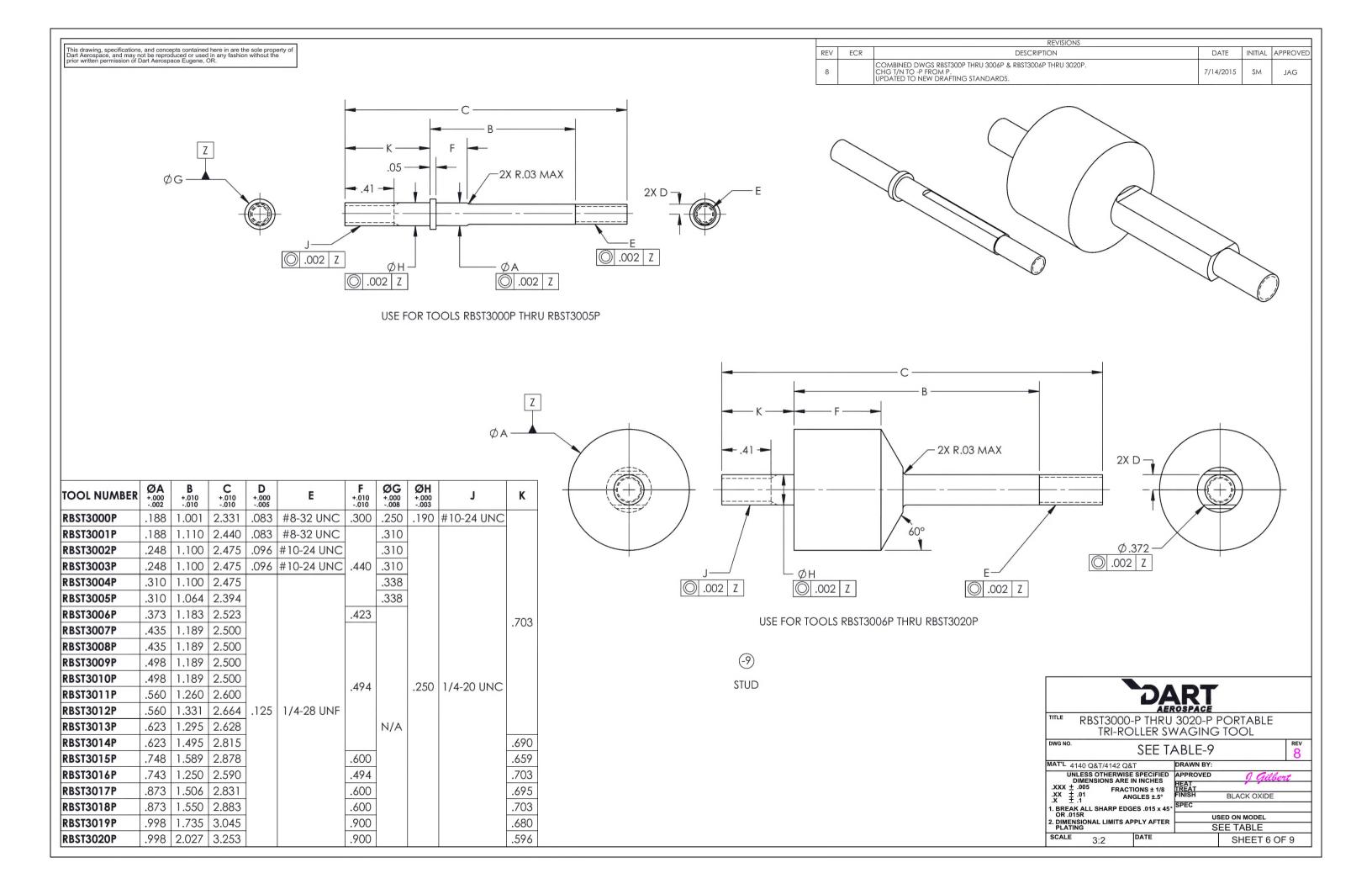
RBST3016P RBST3017P RBST3018P RBST3019P

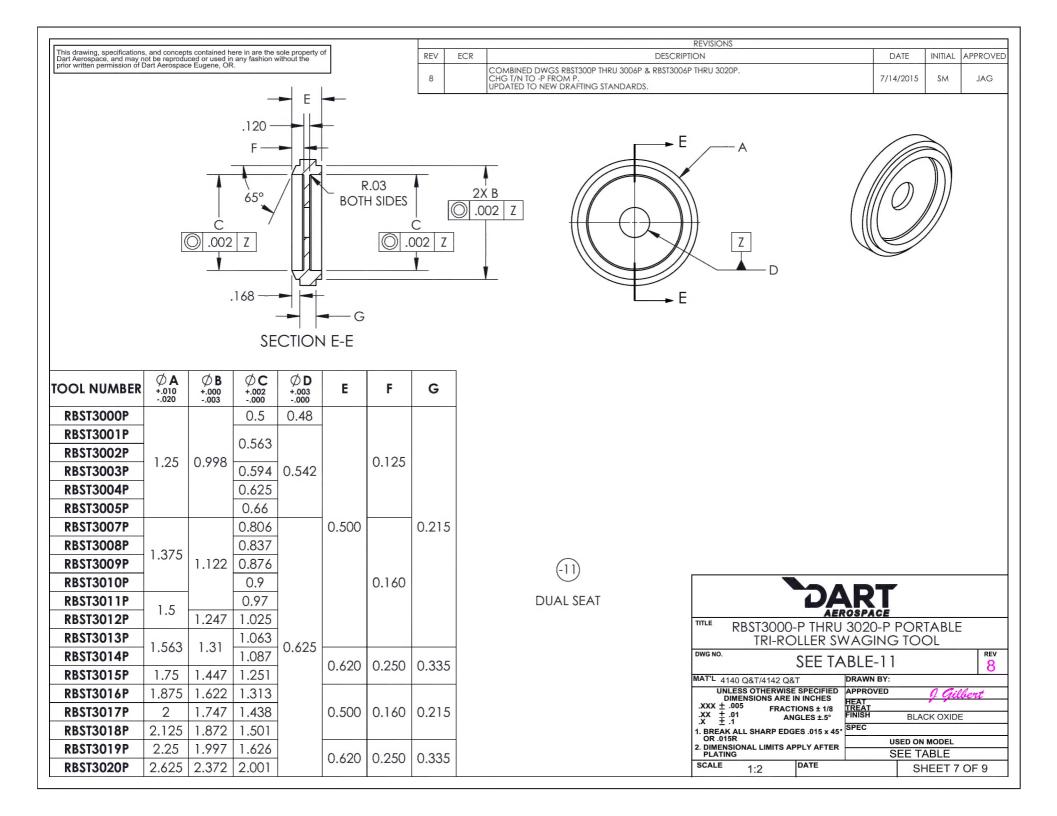
RBST3020P

CAP

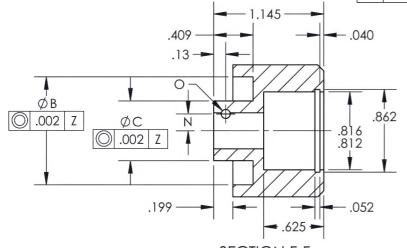
RBST3000-P THRU 3020-P PORTABLE TRI-ROLLER SWAGING TOOL DWG NO. REV SEE TABLE-7 8 MAT'L 1018 UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
.XXX ± .005 FRACTIONS 4.60
HEAT DRAWN BY: D Wallrich .XX ± .01 .X ± .1 BLACK OXIDE ANGLES ±.5° 1. BREAK ALL SHARP EDGES .015 x 45° SPEC OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING USED ON MODEL SEE TABLE SCALE DATE SHEET 5 OF 9

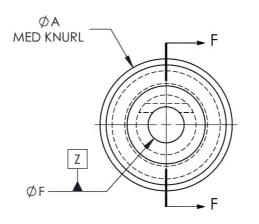
2:1

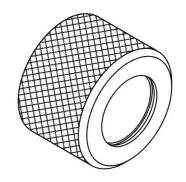




	REVISIONS				
REV	REV ECR DESCRIPTION		DATE	INITIAL	APPROVED
8		COMBINED DWGS RBST300P THRU 3006P & RBST3006P THRU 3020P. CHG T/N TO -P FROM P. UPDATED TO NEW DRAFTING STANDARDS.	7/14/2015	SM	







SECTION I	F-F
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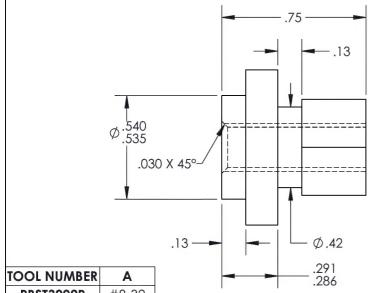
TOOL NUMBER	<b>Ø A</b> +.010 010	<b>Ø B</b> +.003 000	<b>ØC</b> +.000 003	<b>Ø F</b> +.002 000	N +.003 003	+.003 000
RBST3000P			0.478	0.19	0.118	
RBST3001P				0.17	0.116	
RBST3002P	1.25	1		0.25	0.133	0.062
RBST3003P	1.20	'	0.54	0.25	0.155	0.002
RBST3004P				0.313	0.162	
RBST3005P				0.515	0.162	
RBST3007P						
RBST3008P	1.375	1.125				
RBST3009P	1.3/3 1.123	1.123				
RBST3010P						
RBST3011P	1.5	1.196	0 (00	0.275	0.17/	
RBST3012P	1.5	1.25				
RBST3013P	1.563	1.313				0.094
RBST3014P	1.505	1.515	0.623	0.375	0.176	0.094
RBST3015P	1.75	1.5				
RBST3016P	1.875	1.625				
RBST3017P	2	1.75				
RBST3018P	2.125	1.875				
RBST3019P	2.25	2				
RBST3020P	2.625	2.375				

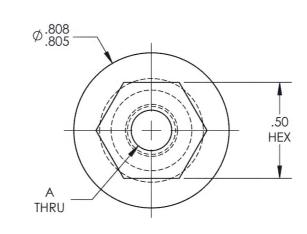
-13

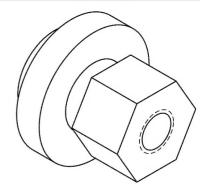
**RECEIVER** 



	REVISIONS REVISIONS					
REV	REV ECR DESCRIPTION		DATE	INITIAL	APPROVED	
8		COMBINED DWGS RBST300P THRU 3006P & RBST3006P THRU 3020P. CHG T/N TO -P FROM P. UPDATED TO NEW DRAFTING STANDARDS.	7/14/2015	SM		







1001110111011	
RBST3000P	#8-32
RBST3001P	#8-32
RBST3002P	#10-24
RBST3003P	#10-24
RBST3004P	1/4-28
RBST3005P	1/4-28
RBST3007P	1/4-28
RBST3008P	1/4-28
RBST3009P	1/4-28
RBST3010P	1/4-28
RBST3011P	1/4-28
RBST3012P	1/4-28
RBST3013P	1/4-28
RBST3014P	1/4-28
RBST3015P	1/4-28
RBST3016P	1/4-28
RBST3017P	1/4-28
RBST3018P	1/4-28
RBST3019P	1/4-28
RBST3020P	1/4-28

(-15)

**TESIONER** 

